## ABSTRACT OF THE DISCLOSURE

2	The present invention pertains to a more efficient system and method for forming
3	rectifying junction contacts in PIN alloy-semiconductor devices using photoelectrical and
4	chemical etching. The present invention provides a means of creating rectifying junction
5	contacts on alloy-semiconductor devices such as CdTe and CdZnTe, among others. In addition
6	the present invention also provides a simple and low cost method for revealing wafer surface
7	morphology of alloy-semiconductors, thus providing an efficient and effective means for
8	selecting single grain semiconductor substrates. Further, the present invention provides
9	radiation detectors employing such alloy-semiconductor devices having improved rectifying
10	junctions as the detector element.